

1 **DIRECT TESTIMONY AND EXHIBITS OF**
2 **ANTHONY D. BRISENO**
3 **ON BEHALF OF**
4 **THE SOUTH CAROLINA OFFICE OF REGULATORY STAFF**
5 **DOCKET NO. 2019-1-E**
6 **IN RE: ANNUAL REVIEW OF BASE RATES FOR FUEL COSTS OF**
7 **DUKE ENERGY PROGRESS, LLC**

8
9 **Q. PLEASE STATE YOUR NAME, BUSINESS ADDRESS AND OCCUPATION.**

10 **A.** My name is Anthony D. Briseno. My business address is 1401 Main Street, Suite
11 900, Columbia, South Carolina 29201. I am employed by the South Carolina Office of
12 Regulatory Staff (“ORS”) as an Auditor.

13 **Q. PLEASE STATE YOUR EDUCATIONAL BACKGROUND AND EXPERIENCE.**

14 **A.** I received my Bachelor of Science in Business Administration in Accounting from
15 Coastal Carolina University in August 2014. I received my Master of Accountancy Degree
16 from Coastal Carolina University in August 2015. I also received a Graduate Certificate
17 for completion of the Fraud Examination Program at Coastal Carolina University in August
18 2015. I began my employment as an Auditor with ORS in October 2016 and have
19 participated in various cases involving the regulation of electric, water and wastewater
20 utilities.

21 **Q. HAVE YOU TESTIFIED PREVIOUSLY BEFORE THE PUBLIC SERVICE**
22 **COMMISSION OF SOUTH CAROLINA (“COMMISSION”)?**

23 **A.** Yes, I have previously testified before the Commission.

1 **Q. WHAT IS THE MISSION OF THE OFFICE OF REGULATORY STAFF?**

2 **A.** ORS represents the public interest as defined by the South Carolina General
3 Assembly as:

4 The concerns of the using and consuming public with respect to
5 public utility services, regardless of the class of customer, and
6 preservation of continued investment in and maintenance of utility
7 facilities so as to provide reliable and high-quality utility services.

8 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?**

9 **A.** The purpose of my testimony is to present the results of ORS's examination of the
10 books and records pertaining to Duke Energy Progress, LLC's ("DEP" or "Company")
11 operations under the Fuel Adjustment Clause ("FAC"). The current fuel examination
12 covered the actual period of March 2018 through February 2019 ("Actual Period"). For
13 Commission consideration, ORS has included the estimated, unaudited four (4) months
14 from March 2019 through June 2019 ("Estimated Period").

15 **Q. WHAT WAS THE PURPOSE OF ORS'S EXAMINATION?**

16 **A.** The purpose of ORS's examination was to determine if the Company's accounting
17 practices in computing and applying the monthly FAC complied with S.C. Code Ann. §§
18 58-27-865, 58-39-130, 58-39-140, 58-40-20, and prior Commission orders.

19 **Q. WHAT WAS THE SCOPE OF ORS'S EXAMINATION?**

20 **A.** ORS examined and verified the monthly fuel adjustment factor calculations and the
21 fuel recovery balances recorded in the Company's books and records. ORS's examination
22 consisted of the following:

23 1. Analyzing the Fuel Stock Account

1 ORS's analysis of the fuel stock account consisted of verifying receipts to and issuances
2 from the fuel management system to the general ledger, examining monthly fuel
3 charges originating in the fuel stock account, and ensuring that only proper charges
4 were entered in the Company's computation of fuel costs for purposes of adjusting the
5 base fuel factor.

6 2. Sampling Receipts to the Fuel Stock Account

7 ORS's review of receipts to the fuel stock account consisted of examining and testing
8 transactions that support additions to the account. Each selected transaction examined
9 was tested for mathematical accuracy and vouched to a commodity received report,
10 corresponding waybill or truck bill, supplier invoice, base cost report, freight invoice,
11 and transportation cost report. Transactions were then verified to a fuel management
12 system payment voucher to verify payment of the correct amount to the vendors.

13 3. Verifying Charges to Nuclear Fuel Expenses

14 ORS verified the amounts of nuclear fuel expense to the books and records for the
15 Actual Period. Additionally, the accuracy of these amounts was verified to the
16 Company's amortization schedules.

17 4. Verifying Purchased and Interchange Power Fuel Cost

18 ORS verified the Company's purchased and interchange power fuel cost, megawatt-
19 hour ("mWh") purchases, and mWh sales for the Actual Period to the Company's
20 "Intersystem Purchase and Sales Transaction" reports and monthly invoices, on a
21 sample basis. This verification included intercompany power transactions related to the
22 Joint Dispatch Agreement ("JDA") between the Company and Duke Energy Carolinas,
23 LLC ("DEC"). ORS recomputed the Company's sales and purchases for the Actual

1 Period. The purchased and interchange power amounts for the Actual Period and the
2 resultant (over)/under-recovery monthly deferred fuel amounts for the period reflect
3 calculations that conform to S.C. Code Ann. § 58-27-865, the statute addressing fuel
4 costs related to purchased power. Subsection (A)(2)(b) of this statute states that the
5 total delivered cost of economy purchases, including, but not limited to, transmission
6 charges, are included in purchased power costs if those purchases are “less than the
7 purchasing utility’s avoided variable costs for the generation of an equivalent quantity
8 of electric power.” ORS verified that the economic purchases were recorded at, or less
9 than, the company’s applicable avoided costs.

10 5. Verifying kilowatt-hour (“kWh”) Sales

11 ORS verified total system kWh sales, as filed in the monthly fuel factor computation,
12 to monthly billed revenue reports for the Actual Period. The monthly kWh sales figures
13 were then used to determine the fuel cost per kWh sold and the monthly fuel cost
14 adjustment factors.

15 6. Recalculating the Fuel Adjustment Factors and Verifying the Deferred Fuel Costs

16 ORS recalculated the fuel costs for the Actual Period utilizing information obtained
17 from the Company’s records and verified these costs to the Company’s books and
18 records. In recalculating the monthly fuel costs, ORS divided adjusted system fuel costs
19 by adjusted system kWh sales to arrive at fuel costs per kWh sold. The fuel costs billed
20 per kWh sold were then subtracted from the actual fuel cost per kWh sold to compute
21 the deferred fuel cost. The actual deferred fuel costs for each month were then verified
22 to the Company’s books and records.

23 7. Recalculating the True-up for the (Over)/Under-Recovered Fuel Costs

1 ORS analyzed and recomputed the cumulative (over)/under-recovery balances of the
2 base fuel, environmental, capacity, Distributed Energy Resource Program (“DERP”)
3 incremental, and DERP avoided costs for the Actual Period and the Estimated Period.

4 **Q. PLEASE EXPLAIN THE AUDIT EXHIBITS ATTACHED TO YOUR**
5 **TESTIMONY.**

6 **A.** ORS prepared the following exhibits from the Company’s books and records:
7 **AUDIT EXHIBIT ADB-1: TOTAL RECEIVED AND WEIGHTED AVERAGE**
8 **FUEL COST**

9 This exhibit details total received cost for the Actual Period of \$1,056,517,057 for coal, #2
10 oil, and natural gas. ORS has also computed the weighted average cost of each type of fuel:
11 coal (\$84.87 per ton), #2 oil (\$2.08 per gallon), and natural gas (\$4.13 per thousand cubic
12 feet (“MCF”).

13 **AUDIT EXHIBIT ADB-2: RECEIVED COAL - COST PER TON COMPARISON**

14 This exhibit details the received cost per ton of coal for each month of the Actual Period
15 for DEP, Dominion Energy South Carolina, and DEC. For comparison purposes, ORS has
16 shown the invoice cost per ton, freight cost per ton, total cost per ton, and the cost per
17 thousand British thermal units (“MBTU”).

18 **AUDIT EXHIBIT ADB-3: BURNED COST - CONSUMED GENERATION**

19 This exhibit details the per book cost of fuel burned for electric generation during the
20 Actual Period. The cost of burned fuel is broken into four (4) types: coal, #2 oil, natural
21 gas and nuclear. The burned cost of each type of fuel is shown separately along with its
22 percentage of total burned costs. These costs are used in the computations of the base fuel
23 cost component.

1 **AUDIT EXHIBIT ADB-4: COST OF FUEL**

2 This exhibit details ORS's computation of the total fuel cost applicable to the fuel recovery
3 calculation. There are three (3) components included in this cost and they are as follows:

- 4 (1) Cost of Fuel Burned;
- 5 (2) Fuel Cost of Purchased and Interchange Power; and
- 6 (3) Fuel Cost Recovered from Intersystem Sales

7 Cost of Fuel Burned – This amount is the total cost of all fossil and nuclear fuel burned
8 during the Actual Period and used in the base fuel component computation. A detailed
9 breakdown of coal, #2 oil, natural gas, and nuclear fuel can be seen in Audit Exhibit ADB-
10 3.

11 Fuel Cost of Purchased and Interchange Power – This amount is the fuel cost of monthly
12 mWhs purchased from other electric utilities or power marketers.

13 Fuel Cost Recovered from Intersystem Sales – This amount is the total fuel cost recovery
14 related to mWhs sold during the period to other electric utilities or power marketers.

15 **AUDIT EXHIBIT ADB-5: DETAILS OF THE COMPUTATION OF THE**
16 **(OVER)/UNDER-RECOVERY OF BASE FUEL COSTS**

17 This exhibit details the (over)/under-recovery of base fuel cost computations by month for
18 the Actual and Estimated Periods. This exhibit also shows the computations of the actual
19 and estimated cumulative (over)/under-recovery balances and various adjustments for
20 March 2018 through June 2019.

21 **AUDIT EXHIBIT ADB-6: TOTAL ENVIRONMENTAL COSTS**

22 This exhibit details the total environmental costs for the Actual Period for calcium
23 carbonate and magnesium hydroxide, emission allowances, ammonia and urea,

1 lime/limestone, and MerControl 8034 Plus. Additionally, the percentage of total cost is
2 shown for each environmental component.

3 **AUDIT EXHIBIT ADB-7: DETAILS OF THE COMPUTATION OF THE**
4 **(OVER)/UNDER-RECOVERY OF ENVIRONMENTAL COSTS**

5 This exhibit details the (over)/under-recovery of environmental cost computations by
6 month for the Actual and Estimated Periods for total reagent costs, emission allowances,
7 and off-system sales. This exhibit also shows the computation of the cumulative
8 (over)/under-recovery balances of environmental costs for March 2018 through June 2019.

9 **AUDIT EXHIBIT ADB-8: DETAILS OF THE COMPUTATION OF THE**
10 **(OVER)/UNDER-RECOVERY OF CAPACITY COSTS**

11 This exhibit details the (over)/under-recovery of Public Utility Regulatory Policy Act of
12 1978 (“PURPA”) purchased power avoided capacity costs and natural gas capacity costs
13 by month for the Actual and Estimated Periods. Due to the enactment of Act 236, effective
14 June 2014, the avoided capacity component of PURPA purchased power costs and the
15 natural gas capacity costs are now allocated and recovered as a separate component of the
16 overall fuel factor in the same manner as environmental costs. This exhibit also shows the
17 computation of the cumulative (over)/under-recovery balances of capacity costs for March
18 2018 through June 2019.

19 **AUDIT EXHIBIT ADB-9: DETAILS OF THE COMPUTATION OF THE**
20 **(OVER)/UNDER-RECOVERY OF DERP INCREMENTAL COSTS**

21 This exhibit details the (over)/under-recovery of DERP incremental costs by month for the
22 Actual and Estimated Periods. This audit exhibit also shows the computation of the
23 cumulative (over)/under-recovery balances of DERP incremental costs for March 2018

1 through June 2019. DERP incremental costs are further explained in the direct testimony
2 of ORS witness Hipp.

3 **AUDIT EXHIBIT ADB-10: DETAILS OF THE COMPUTATION OF THE**
4 **(OVER)/UNDER-RECOVERY OF DERP AVOIDED COSTS**

5 This exhibit details the (over)/under-recovery of DERP avoided costs computations by
6 month for the Actual and Estimated Periods. This exhibit also shows the computations of
7 the cumulative (over)/under-recovery balances of DERP avoided costs for March 2018
8 through June 2019. DERP avoided costs are further explained in the direct testimony of
9 ORS witness Hipp.

10 **Q. PLEASE EXPLAIN ORS'S COMPUTATION OF THE CUMULATIVE**
11 **(OVER)/UNDER-RECOVERY OF BASE FUEL COSTS IN AUDIT EXHIBIT ADB-**
12 **5.**

13 **A.** Audit Exhibit ADB-5 provides details of ORS's calculation of the actual
14 cumulative under-recovery balance through February 2019 of \$13,424,397, and the
15 estimated cumulative under-recovery balance through June 2019 of \$8,404,772. Company
16 witness Harrington's testimony (Harrington Exhibit 2, pages 1 through 3) in this docket
17 reports the same cumulative under-recovery balance through February 2019, and the same
18 cumulative under-recovery balance through June 2019 as calculated by ORS.

19 **Q. DID THE COMPANY MAKE ANY ADJUSTMENTS OR TRUE-UPS DURING**
20 **EITHER THE ACTUAL OR ESTIMATED PERIODS FOR THE BASE FUEL**
21 **COSTS COMPONENT?**

1 **A.** Yes. The Company made the following adjustments as shown on Audit Exhibit
2 ADB-5:

3 **Adjustment (A) – Value of Solar True-up**

4 In June 2018, the Company made an under-recovery adjustment of \$3,199 to account for
5 corrections to the solar profile input data for the period of July 2017 through June 2018.
6 This adjustment accounts for the base fuel non-capacity portion of the adjustment. The
7 input data was misinterpreted as provided on a KW-DC basis, and was converted to KW-
8 AC. However, the input data had actually been provided on a KW-AC basis. The
9 corrections result in changes to generator outputs and expenses based upon the corrected
10 input data. ORS has reviewed the supporting documentation and agrees with this
11 adjustment to the base fuel costs component.

12 **Adjustment (B) –**

13 **1 – Avoided Cost True-up for Economic Purchases**

14 In February 2019, the Company made an over-recovery adjustment in the amount of \$70
15 to account for the annual avoided cost true-up of economic power purchases for the Actual
16 Period. ORS has reviewed the supporting documentation provided for this adjustment and
17 agrees with the adjustment to the base fuel costs component.

18 **2 – Prior Period Adjustment for Native Load Transfer/Native Load Transfer Benefit**

19 In February 2019, the Company made an over-recovery adjustment in the amount of
20 \$5,811,950 to account for a coding error related to the sharing of economic purchases
21 between DEC and DEP. The sharing of economic purchases between DEC and DEP is
22 done pursuant to the JDA. The coding error was corrected in January 2019 when it was
23 discovered by Company personnel. After correcting the coding error and recalculating the

1 sharing of the economic purchases, it was determined DEC customers did not fully
2 reimburse DEP customers for the net native load transfers when sharing economic
3 purchases between DEC and DEP, for the period of July 2012 (when the Commission
4 approved the JDA) through December 2018.

5 A resulting under-recovery adjustment will be made in the DEC FAC, Docket No. 2019-
6 3-E, in the month of February 2019 to account for the costs it needs to reimburse DEP
7 related to this adjustment.

8 The Company has added an additional internal control to verify the sharing of economic
9 purchases are calculated correctly and this will enable ORS to review and verify those
10 calculations. ORS has reviewed the supporting documentation provided for this adjustment
11 and agrees with the adjustment to the base fuel costs component.

12 **Q. PLEASE EXPLAIN ORS'S COMPUTATION OF THE CUMULATIVE**
13 **(OVER)/UNDER-RECOVERY OF ENVIRONMENTAL COSTS IN AUDIT**
14 **EXHIBIT ADB-7.**

15 **A.** Audit Exhibit ADB-7 provides details of ORS's calculation of the actual
16 cumulative under-recovery balance through February 2019 of \$199,209, and the estimated
17 cumulative under-recovery balance through June 2019 of \$586,202. Company witness
18 Harrington's testimony (Harrington Exhibit 4, pages 1 through 6) in this docket reports a
19 cumulative environmental cost under-recovery balance through February 2019 of \$199,207
20 and the estimated cumulative under-recovery balance through June 2019 of \$586,199. The
21 variances between ORS and the Company's cumulative ending balances for February 2019
22 and June 2019 are due to rounding.

1 **Q. PLEASE EXPLAIN ORS'S COMPUTATION OF THE CUMULATIVE**
2 **(OVER)/UNDER-RECOVERY OF CAPACITY COSTS IN AUDIT EXHIBIT ADB-**
3 **8.**

4 **A.** Audit Exhibit ADB-8 provides details of ORS's calculation of the actual
5 cumulative capacity cost under-recovery balance through February 2019 of \$574,928, and
6 the estimated cumulative under-recovery balance through June 2019 of \$1,230,360.
7 Company witness Harrington's testimony (Harrington Exhibit 7, pages 1 through 6) in this
8 docket reports a cumulative under-recovery balance through February 2019 of \$574,929
9 and the estimated cumulative under-recovery balance through June 2019 of \$1,230,359.
10 The variances between ORS and the Company's cumulative ending balances for February
11 2019 and June 2019 are due to rounding.

12 **Q. PLEASE EXPLAIN ORS'S COMPUTATION OF THE CUMULATIVE**
13 **(OVER)/UNDER-RECOVERY OF DERP INCREMENTAL COSTS IN AUDIT**
14 **EXHIBIT ADB-9.**

15 **A.** Audit Exhibit ADB-9 provides details of ORS's calculation of the actual
16 cumulative DERP incremental cost under-recovery balance through February 2019 of
17 \$6,240, and the estimated cumulative under-recovery balance through June 2019 of
18 \$154,635. Company witness Harrington's supplemental testimony (Harrington Revised
19 Exhibit 9, pages 1 through 2) in this docket reports a cumulative under-recovery balance
20 through February 2019 of \$6,239 and the estimated cumulative under-recovery balance
21 through June 2019 of \$154,634. The variances between ORS and the Company's
22 cumulative ending balances for February 2019 and June 2019 are due to rounding.

1 **Q. DID THE COMPANY MAKE ANY ADJUSTMENTS OR TRUE-UPS DURING**
2 **EITHER THE ACTUAL OR ESTIMATED PERIODS FOR THE DERP**
3 **INCREMENTAL COSTS COMPONENT?**

4 **A.** Yes. The Company made the following adjustments as shown on Audit Exhibit
5 ADB-9:

6 **Adjustment (C) – Value of Solar True-up**

7 In June 2018, the Company made an under-recovery adjustment in the amount of \$64,016
8 to account for corrections to the solar profile input data for the period July 2017 through
9 June 2018. This adjustment was made in conjunction with Adjustment (A) made to the
10 base fuel costs component. This adjustment was provided as part of the DEP Monthly Fuel
11 Report submitted to the Commission, on Schedule 4, page 3 of 3, in Docket No. 2006-176-
12 E for the month of June 2018. ORS has reviewed the supporting documentation provided
13 for this adjustment and agrees with the adjustment to the DERP incremental costs
14 component.

15 **Adjustment (D) – DERP Reclassification**

16 In January 2019, the Company made an under-recovery adjustment in the amount of
17 \$56,595 for the reclassification of DERP avoided costs to DERP incremental costs. This
18 adjustment covers the period of December 2017 through December 2018. This adjustment
19 was provided as part of the DEP Monthly Fuel Report submitted to the Commission, on
20 Schedule 4, page 3 of 3, in Docket No. 2006-176-E for the month of January 2019. ORS
21 has reviewed the supporting documentation provided for this adjustment and agrees with
22 the adjustment to the DERP incremental costs component.

1 **Q. PLEASE EXPLAIN ORS'S COMPUTATION OF THE CUMULATIVE**
2 **(OVER)/UNDER-RECOVERY OF DERP AVOIDED COSTS IN AUDIT EXHIBIT**
3 **ADB-10.**

4 **A.** Audit Exhibit ADB-10 provides details of ORS's calculation of the actual
5 cumulative DERP avoided cost under-recovery balance through February 2019 of \$19,286,
6 and the estimated cumulative under-recovery balance through June 2019 of \$19,122.
7 Company witness Harrington's testimony (Harrington Exhibit 13, pages 1 through 8) in
8 this docket reports a cumulative under-recovery balance through February 2019 of \$19,288
9 and the estimated cumulative under-recovery balance through June 2019 of \$19,122. The
10 variance between ORS and the Company's cumulative ending balance for February 2019
11 is due to rounding.

12 **Q. DID THE COMPANY MAKE ANY ADJUSTMENTS OR TRUE-UPS DURING**
13 **EITHER THE ACTUAL OR ESTIMATED PERIODS FOR THE DERP AVOIDED**
14 **COSTS COMPONENT?**

15 **A.** Yes. The Company made the following adjustment as shown on Audit Exhibit
16 ADB-10:

17 **Adjustment (E) – DERP Reclassification**

18 In January 2019, the Company made an over-recovery adjustment in the amount of \$5,682
19 for the corresponding adjustment made for the reclassification of DERP avoided costs. The
20 adjustment to DERP avoided costs is based upon the SC allocation factors used for total
21 environmental costs, which is why the Adjustment (E) amount of \$5,682 does not agree
22 with the Adjustment (D) amount of \$56,595. This adjustment was provided as part of the
23 DEP Monthly Fuel Report submitted to the Commission, on Schedule 4, page 1 of 3, in

1 Docket No. 2006-176-E for the month of January 2019. ORS has reviewed the supporting
2 documentation provided for this adjustment and agrees with the adjustment to the DERP
3 avoided costs component.

4 **Q. WHAT IS THE RESULT OF ORS'S EXAMINATION?**

5 **A.** Based on ORS's examination of the Company's books and records, and the
6 Company's operations under the fuel cost recovery mechanism, ORS determined the
7 Company's accounting practices are in compliance with S.C. Code Ann. §§ 58-27-865, 58-
8 39-130, 58-39-140, 58-40-20, and prior Commission orders.

9 Based on ORS's examination, ORS agrees with the following cumulative (over)/under-
10 recovery balances as calculated in DEP witness Harrington's Exhibits:

- 11 • February 2019 base fuel cost under-recovery balance of \$13,424,397;
- 12 • February 2019 environmental cost component under-recovery of \$199,207;
- 13 • February 2019 capacity cost component under-recovery balance of \$574,929;
- 14 • February 2019 DERP incremental under-recovery balance of \$6,239;
- 15 • February 2019 DERP avoided cost under-recovery balance of \$19,288;
- 16 • June 2019 estimated base fuel cost under-recovery balance of \$8,404,772;
- 17 • June 2019 estimated environmental cost component under-recovery balance of
18 \$586,199;
- 19 • June 2019 estimated capacity cost component under-recovery balance of
20 \$1,230,359;
- 21 • June 2019 estimated DERP incremental cost under-recovery balance of \$154,634;
- 22 • June 2019 estimated DERP avoided cost under-recovery balance of \$19,122.

1 **Q. WILL YOU UPDATE YOUR TESTIMONY BASED ON INFORMATION THAT**
2 **BECOMES AVAILABLE?**

3 **A.** Yes. ORS fully reserves the right to revise its recommendations via supplemental
4 testimony should new information not previously provided by the Company, or other
5 sources, becomes available.

6 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

7 **A.** Yes, it does.

Office of Regulatory Staff
 Total Received and Weighted Average Fuel Cost
 Duke Energy Progress, LLC
 For Year Ending February 2019
 Docket No. 2019-1-E

<u>Month</u>	<u>Coal</u>		<u>#2 Oil</u>		<u>Natural Gas</u>		<u>Total Received Cost</u>
	<u>Tons</u>	<u>\$</u>	<u>Gal</u>	<u>\$</u>	<u>MCF</u>	<u>\$</u>	
Mar-18	260,853	20,820,668	343,657	711,625	15,553,695	61,813,062	83,345,355
Apr-18	250,213	20,651,742	432,599	866,952	10,770,346	43,329,244	64,847,938
May-18	229,852	18,727,383	397,381	838,907	12,454,121	49,083,626	68,649,916
Jun-18	170,145	14,194,694	624,754	382,669	15,065,631	57,812,170	72,389,533
Jul-18	307,000	25,200,654	348,385	770,203	19,812,654	72,346,041	98,316,898
Aug-18	340,861	28,187,284	379,449	832,531	18,922,604	69,599,446	98,619,261
Sep-18	354,833	29,384,236	278,371	644,675	16,638,010	63,321,840	93,350,751
Oct-18	313,519	26,559,919	1,522,264	3,751,216	16,283,625	63,427,155	93,738,290
Nov-18	241,164	21,315,076	1,350,295	3,025,039	14,379,747	65,484,841	89,824,956
Dec-18	319,867	29,276,335	908,563	1,957,111	13,965,826	72,921,244	104,154,690
Jan-19	318,652	28,989,924	1,231,580	2,535,237	13,022,503	69,629,925	101,155,086
Feb-19	339,357	29,182,288	764,541	1,546,611	13,630,181	57,395,484	88,124,383
Total	3,446,316	\$ 292,490,203	8,581,839	\$ 17,862,776	180,498,943	\$ 746,164,078	\$ 1,056,517,057

Weighted Average Cost \$ 84.87

\$ 2.08

\$ 4.13

Office of Regulatory Staff
Received Coal - Cost Per Ton Comparison
Duke Energy Progress, LLC
For Year Ending February 2019
Docket No. 2019-1-E

Month	Duke Energy Progress, LLC				Dominion Energy South Carolina ¹				Duke Energy Carolinas, LLC ¹			
	Invoice Cost Per Ton \$	Freight Cost Per Ton \$	Total Cost Per Ton \$	Cost Per MBTU \$	Invoice Cost Per Ton \$	Freight Cost Per Ton \$	Total Cost Per Ton \$	Cost Per MBTU \$	Invoice Cost Per Ton \$	Freight Cost Per Ton \$	Total Cost Per Ton \$	Cost Per MBTU \$
Mar-18	45.59	25.65	71.24	2.93	56.50	25.87	82.37	3.24	47.89	27.67	75.56	3.14
Apr-18	46.98	35.20	82.18	3.38	56.50	26.18	82.68	3.27	47.25	29.49	76.74	3.17
May-18	47.65	26.89	74.54	3.09	54.80	24.73	79.53	3.13	47.78	29.74	77.52	3.20
Jun-18	46.51	27.71	74.22	2.93	56.98	26.66	83.64	3.27	48.67	27.12	75.79	3.05
Jul-18	49.19	35.62	84.81	3.39	57.00	23.33	80.33	3.17	48.33	30.44	78.77	3.20
Aug-18	47.29	36.22	83.51	3.31	56.50	23.67	80.17	3.18	50.07	30.96	81.03	3.27
Sep-18	51.35	39.09	90.44	3.62	59.02	24.96	83.98	3.32	50.02	31.06	81.08	3.25
Oct-18	49.74	34.30	84.04	3.32	57.78	23.98	81.76	3.25	49.71	28.08	77.79	3.12
Nov-18	53.31	49.16	102.47	4.07	61.79	24.21	86.00	3.45	49.55	28.64	78.19	3.10
Dec-18	68.45	38.21	106.66	4.25	59.35	24.73	84.08	3.38	84.65	67.39	152.04	6.09
Jan-19	57.26	33.35	90.61	3.61	63.07	25.69	88.76	3.55	56.94	35.81	92.75	3.78
Feb-19	51.52	36.22	87.74	3.47	62.59	27.57	90.16	3.62	52.69	33.04	85.73	3.50

¹ Cost information for Dominion Energy South Carolina and Duke Energy Carolinas, LLC has not been audited as part of this docket.

**Office of Regulatory Staff
 Burned Cost - Consumed Generation
 Duke Energy Progress, LLC
 For Year Ending February 2019
 Docket No. 2019-1-E**

<u>Month</u>	<u>Coal</u>	<u>#2 Oil</u>	<u>Natural Gas</u>	<u>Nuclear</u>	<u>Total Burned Cost</u>
Mar-18	\$ 16,172,215	\$ 1,319,459	\$ 50,793,467	\$ 13,884,551	\$ 82,169,692
Apr-18	\$ 17,338,859	\$ 1,484,472	\$ 32,642,747	\$ 12,471,756	\$ 63,937,834
May-18	\$ 18,605,806	\$ 1,091,089	\$ 38,051,374	\$ 16,473,119	\$ 74,221,388
Jun-18	\$ 37,605,413	\$ 1,495,714	\$ 47,009,286	\$ 15,148,148	\$ 101,258,561
Jul-18	\$ 31,289,707	\$ 1,241,874	\$ 61,690,590	\$ 17,540,348	\$ 111,762,519
Aug-18	\$ 34,628,006	\$ 882,562	\$ 58,616,409	\$ 18,004,976	\$ 112,131,953
Sep-18	\$ 24,351,327	\$ 515,787	\$ 53,063,372	\$ 13,468,704	\$ 91,399,190
Oct-18	\$ 14,594,043	\$ 473,957	\$ 53,600,001	\$ 13,744,614	\$ 82,412,615
Nov-18	\$ 19,371,212	\$ 1,516,031	\$ 54,010,396	\$ 14,082,897	\$ 88,980,536
Dec-18	\$ 34,453,367	\$ 2,455,637	\$ 61,732,708	\$ 16,323,865	\$ 114,965,577
Jan-19	\$ 37,139,667	\$ 3,725,749	\$ 59,048,074	\$ 16,837,287	\$ 116,750,777
Feb-19	\$ 9,078,394	\$ 1,257,318	\$ 47,224,803	\$ 15,434,029	\$ 72,994,544
Total	\$ 294,628,016	\$ 17,459,649	\$ 617,483,227	\$ 183,414,294	\$ 1,112,985,186

Office of Regulatory Staff
 Cost of Fuel
 Duke Energy Progress, LLC
 For Year Ending February 2019
 Docket No. 2019-1-E

<u>Month</u>	<u>Cost of Fuel Burned</u>	<u>Fuel Cost of Purchased and Interchange Power</u>	<u>Fuel Cost Recovered from Intersystem Sales</u>	<u>Total Fuel Costs</u>
Mar-18	\$ 82,169,692	\$ 32,456,207	\$ (8,046,010)	\$ 106,579,889
Apr-18	\$ 63,937,834	\$ 37,568,012	\$ (7,345,507)	\$ 94,160,339
May-18	\$ 74,221,388	\$ 41,090,990	\$ (5,428,354)	\$ 109,884,024
Jun-18	\$ 101,258,561	\$ 44,202,763	\$ (5,994,540)	\$ 139,466,784
Jul-18	\$ 111,762,519	\$ 49,508,673	\$ (22,280,970)	\$ 138,990,222
Aug-18	\$ 112,131,953	\$ 45,979,132	\$ (20,530,519)	\$ 137,580,566
Sep-18	\$ 91,399,190	\$ 59,796,690	\$ (14,060,575)	\$ 137,135,305
Oct-18	\$ 82,412,615	\$ 35,853,040	\$ (22,249,737)	\$ 96,015,918
Nov-18	\$ 88,980,536	\$ 40,798,668	\$ (18,902,398)	\$ 110,876,806
Dec-18	\$ 114,965,577	\$ 26,413,235	\$ (24,995,583)	\$ 116,383,229
Jan-19	\$ 116,750,777	\$ 34,355,868	\$ (9,878,607)	\$ 141,228,038
Feb-19	\$ 72,994,544	\$ 28,552,518	\$ (15,286,601)	\$ 86,260,461
Total	\$ 1,112,985,186	\$ 476,575,796	\$ (174,999,401)	\$ 1,414,561,581

Office of Regulatory Staff
Details of the Computation of the (Over)/Under-Recovery of Base Fuel Costs
Duke Energy Progress, LLC
March 2018 - June 2019
Docket No. 2019-1-E

	Actual							
	March 2018	April 2018	May 2018	June 2018	July 2018	August 2018	September 2018	October 2018
Total Fuel Costs	\$ 106,579,889	\$ 94,160,339	\$ 109,884,024	\$ 139,466,784	\$ 138,990,222	\$ 137,580,566	\$ 137,135,305	\$ 96,015,918
Add: Avoided Fuel Benefit of SC NEM	\$ 33,455	\$ 27,921	\$ 35,183	\$ 34,483	\$ 61,989	\$ 75,147	\$ 64,483	\$ 45,792
Adjusted System Fuel Costs	\$ 106,613,344	\$ 94,188,260	\$ 109,919,207	\$ 139,501,267	\$ 139,052,211	\$ 137,655,713	\$ 137,199,788	\$ 96,061,710
Total System kWh Sales	4,653,962,859	4,494,045,504	4,644,699,960	5,677,792,552	6,164,634,934	6,200,477,072	5,427,393,740	5,150,522,556
Add: NEM Solar Generation kWh	1,044,569	871,805	1,098,547	1,076,721	1,549,719	1,878,670	2,011,329	1,428,329
Adjusted System kWh Sales	4,655,007,428	4,494,917,309	4,645,798,507	5,678,869,273	6,166,184,653	6,202,355,742	5,429,405,069	5,151,950,885
Fuel Costs per kWh Sales	\$ 0.022903	\$ 0.020954	\$ 0.023660	\$ 0.024565	\$ 0.022551	\$ 0.022194	\$ 0.025270	\$ 0.018646
S.C. Retail kWh Sales	411,013,563	533,237,463	461,633,361	523,124,836	658,136,492	621,746,700	511,359,659	578,449,399
Add: NEM Solar Generation kWh	1,044,569	871,805	1,098,547	1,076,721	1,549,719	1,878,670	2,011,329	1,428,329
Adjusted S.C. Retail kWh Sales	412,058,132	534,109,268	462,731,908	524,201,557	659,686,211	623,625,370	513,370,988	579,877,728
S.C. Base Fuel Costs	\$ 9,437,341	\$ 11,191,935	\$ 10,948,199	\$ 12,876,997	\$ 14,876,432	\$ 13,840,805	\$ 12,972,764	\$ 10,812,224
Less: Avoided Fuel Benefit of S.C. NEM	\$ 33,455	\$ 27,921	\$ 35,183	\$ 34,483	\$ 61,989	\$ 75,147	\$ 64,483	\$ 45,792
Adjusted S.C. Base Fuel Costs	\$ 9,403,886	\$ 11,164,014	\$ 10,913,016	\$ 12,842,514	\$ 14,814,443	\$ 13,765,658	\$ 12,908,281	\$ 10,766,432
S.C. Retail Fuel Costs Collected	\$ 9,084,719	\$ 11,785,525	\$ 10,201,659	\$ 11,560,996	\$ 15,005,367	\$ 14,677,864	\$ 12,098,363	\$ 13,686,259
Less: Fuel Benefits in DERP NEM Incentive	\$ 9,511	\$ 7,803	\$ 9,734	\$ 9,365	\$ 13,040	\$ 16,137	\$ 17,696	\$ 10,922
Adjusted S.C. Retail Costs Collected	\$ 9,075,208	\$ 11,777,722	\$ 10,191,925	\$ 11,551,631	\$ 14,992,327	\$ 14,661,727	\$ 12,080,667	\$ 13,675,337
Current Month (Over)/Under Recovery Amount	\$ 328,678	\$ (613,708)	\$ 721,091	\$ 1,290,883	\$ (177,884)	\$ (896,069)	\$ 827,614	\$ (2,908,905)
Cumulative (Over)/Under-Recovery-Prior Month Amount	\$ 23,394,223	\$ 23,722,901	\$ 23,109,193	\$ 23,830,284	\$ 25,124,366	\$ 24,946,482	\$ 24,050,413	\$ 24,878,027
Company Accounting Adjustments	\$ -	\$ -	\$ - (A)	\$ 3,199	\$ -	\$ -	\$ -	\$ -
ORS Accounting Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cumulative (Over)/Under-Recovery	\$ 23,722,901	\$ 23,109,193	\$ 23,830,284	\$ 25,124,366	\$ 24,946,482	\$ 24,050,413	\$ 24,878,027	\$ 21,969,122

Office of Regulatory Staff
Details of the Computation of the (Over)/Under-Recovery of Base Fuel Costs
Duke Energy Progress, LLC
March 2018 - June 2019
Docket No. 2019-1-E

	Actual					Estimated		
	November 2018	December 2018	January 2019	February 2019	March 2019	April 2019	May 2019	June 2019
Total Fuel Costs	\$ 110,876,806	\$ 116,383,229	\$ 141,228,038	\$ 86,260,461	\$ 104,652,954	\$ 83,907,314	\$ 93,575,601	\$ 114,556,823
Add: Avoided Fuel Benefit of SC NEM	\$ 63,753	\$ 67,763	\$ 74,728	\$ 66,656	\$ 80,204	\$ 82,258	\$ 85,679	\$ 92,600
Adjusted System Fuel Costs	\$ 110,940,559	\$ 116,450,992	\$ 141,302,766	\$ 86,327,117	\$ 104,733,158	\$ 83,989,572	\$ 93,661,280	\$ 114,649,423
Total System kWh Sales	4,723,872,382	4,828,127,846	5,615,989,658	5,087,626,427	4,552,981,616	4,482,512,031	4,446,396,083	5,204,419,092
Add: NEM Solar Generation kWh	1,988,547	2,113,646	2,330,897	2,079,115	2,501,687	2,565,762	2,672,455	2,888,346
Adjusted System kWh Sales	4,725,860,929	4,830,241,492	5,618,320,555	5,089,705,542	4,555,483,303	4,485,077,793	4,449,068,538	5,207,307,438
Fuel Costs per kWh Sales	\$ 0.023475	\$ 0.024109	\$ 0.025150	\$ 0.016961	\$ 0.022991	\$ 0.018726	\$ 0.021052	\$ 0.022017
S.C. Retail kWh Sales	505,054,037	445,338,979	605,279,111	555,508,005	416,088,164	510,686,159	491,046,715	541,036,670
Add: NEM Solar Generation kWh	1,988,547	2,113,646	2,330,897	2,079,115	2,501,687	2,565,762	2,672,455	2,888,346
Adjusted S.C. Retail kWh Sales	507,042,584	447,452,625	607,610,008	557,587,120	418,589,851	513,251,921	493,719,170	543,925,016
S.C. Base Fuel Costs	\$ 11,902,929	\$ 10,787,515	\$ 15,281,609	\$ 9,457,303	\$ 9,623,619	\$ 9,611,385	\$ 10,393,719	\$ 11,975,611
Less: Avoided Fuel Benefit of S.C. NEM	\$ 63,753	\$ 67,763	\$ 74,728	\$ 66,656	\$ 80,204	\$ 82,258	\$ 85,679	\$ 92,600
Adjusted S.C. Base Fuel Costs	\$ 11,839,176	\$ 10,719,752	\$ 15,206,881	\$ 9,390,647	\$ 9,543,415	\$ 9,529,127	\$ 10,308,040	\$ 11,883,011
S.C. Retail Fuel Costs Collected	\$ 11,950,767	\$ 10,539,427	\$ 14,323,686	\$ 13,146,231	\$ 9,846,440	\$ 12,082,835	\$ 11,618,165	\$ 12,800,928
Less: Fuel Benefits in DERP NEM Incentive	\$ 16,926	\$ 17,922	\$ 20,051	\$ 16,051	\$ 20,835	\$ 13,987	\$ 14,562	\$ 15,766
Adjusted S.C. Retail Costs Collected	\$ 11,933,841	\$ 10,521,505	\$ 14,303,635	\$ 13,130,180	\$ 9,825,605	\$ 12,068,848	\$ 11,603,603	\$ 12,785,162
Current Month (Over)/Under Recovery Amount	\$ (94,665)	\$ 198,247	\$ 903,246	\$ (3,739,533)	\$ (282,190)	\$ (2,539,721)	\$ (1,295,563)	\$ (902,151)
Cumulative (Over)/Under-Recovery-Prior Month Amount	\$ 21,969,122	\$ 21,874,457	\$ 22,072,704	\$ 22,975,950	\$ 13,424,397	\$ 13,142,207	\$ 10,602,486	\$ 9,306,923
Company Accounting Adjustments	\$ -	\$ -	\$ -	\$ (B) \$ (5,812,020)	\$ -	\$ -	\$ -	\$ -
ORS Accounting Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cumulative (Over)/Under-Recovery	\$ 21,874,457	\$ 22,072,704	\$ 22,975,950	\$ 13,424,397	\$ 13,142,207	\$ 10,602,486	\$ 9,306,923	\$ 8,404,772

*Explanations of Adjustments (A) and (B) are included in the testimony of Anthony D. Briseno.

	February 2019	June 2019
Cumulative (Over)/Under-Recovery of the Base Fuel Costs (Audit Exhibit ADB-5)	\$ 13,424,397	\$ 8,404,772
Cumulative (Over)/Under-Recovery of Environmental Costs (Audit Exhibit ADB-7)	\$ 199,209	\$ 586,202
Cumulative (Over)/Under-Recovery of Capacity Costs (Audit Exhibit ADB-8)	\$ 574,928	\$ 1,230,360
Cumulative (Over)/Under-Recovery of DERP Incremental Costs (Audit Exhibit ADB-9)	\$ 6,240	\$ 154,635
Cumulative (Over)/Under-Recovery of DERP Avoided Costs (Audit Exhibit ADB-10)	\$ 19,286	\$ 19,122
Net Cumulative (Over)/Under-Recovery Balance	\$ 14,224,060	\$ 10,395,091

Office of Regulatory Staff
 Total Environmental Costs
 Duke Energy Progress, LLC
 For Year Ending February 2019
 Docket No. 2019-1-E

<u>Month</u>	<u>Calcium Carbonate</u>	<u>Magnesium Hydroxide</u>	<u>Emission Allowances</u>	<u>Ammonia and Urea</u>	<u>Lime/Limestone</u>	<u>MerControl 8034 Plus</u>	<u>Total Environmental Costs</u>						
Mar-18	\$ 43,015	5.45%	\$ 91,531	11.61%	\$ 833	0.11%	\$ 156,431	19.84%	\$ 496,607	62.99%	\$ -	0.00%	\$ 788,417
Apr-18	\$ 59,381	6.77%	\$ 100,635	11.47%	\$ 3,745	0.43%	\$ 165,906	18.92%	\$ 547,397	62.41%	\$ -	0.00%	\$ 877,064
May-18	\$ 72,726	7.34%	\$ 122,200	12.35%	\$ (94,203)	-9.52%	\$ 141,357	14.28%	\$ 727,372	73.50%	\$ 20,217	2.05%	\$ 989,669
Jun-18	\$ 120,261	6.03%	\$ 262,024	13.14%	\$ 1,451	0.07%	\$ 286,030	14.34%	\$ 1,325,264	66.42%	\$ -	0.00%	\$ 1,995,030
Jul-18	\$ 112,072	6.33%	\$ 243,659	13.77%	\$ 2,619	0.15%	\$ 225,187	12.73%	\$ 1,185,669	67.02%	\$ -	0.00%	\$ 1,769,206
Aug-18	\$ 119,043	5.69%	\$ 259,397	12.40%	\$ 2,002	0.10%	\$ 265,651	12.70%	\$ 1,445,275	69.11%	\$ -	0.00%	\$ 2,091,368
Sep-18	\$ 61,336	4.24%	\$ 146,043	10.08%	\$ 2,157	0.15%	\$ 248,768	17.18%	\$ 926,179	63.94%	\$ 63,945	4.41%	\$ 1,448,428
Oct-18	\$ 29,767	3.32%	\$ 81,565	9.11%	\$ 1,511	0.16%	\$ 215,396	24.05%	\$ 567,527	63.36%	\$ -	0.00%	\$ 895,766
Nov-18	\$ 59,166	5.09%	\$ 95,239	8.20%	\$ 943	0.08%	\$ 181,123	15.59%	\$ 825,512	71.04%	\$ -	0.00%	\$ 1,161,983
Dec-18	\$ 135,928	6.63%	\$ 266,273	12.99%	\$ 1,264	0.06%	\$ 390,376	19.05%	\$ 1,255,920	61.27%	\$ -	0.00%	\$ 2,049,761
Jan-19	\$ 123,224	6.08%	\$ 285,903	14.10%	\$ -	0.00%	\$ 364,217	17.95%	\$ 1,254,894	61.87%	\$ -	0.00%	\$ 2,028,238
Feb-19	\$ 32,381	5.59%	\$ 51,562	8.90%	\$ -	0.00%	\$ 128,923	22.25%	\$ 366,558	63.26%	\$ -	0.00%	\$ 579,424
Totals	\$ 968,300	5.81%	\$ 2,006,031	12.03%	\$ (77,678)	-0.46%	\$ 2,769,365	16.61%	\$ 10,924,174	65.51%	\$ 84,162	0.50%	\$ 16,674,354

Office of Regulatory Staff
 Details of the Computation of the (Over)/Under-Recovery of Capacity Costs
 Duke Energy Progress, LLC
 March 2018 - June 2019
 Docket No. 2019-1-E

	Actual									
	March 2018	April 2018	May 2018	June 2018	July 2018	August 2018	September 2018	October 2018		
PURPA Purchased Power Capacity Costs	\$ 3,501,027	\$ 5,769,066	\$ 5,660,960	\$ 9,096,212	\$ 9,511,571	\$ 9,360,396	\$ 9,533,487	\$ 2,509,771		
Natural Gas Capacity Costs	\$ 11,019,595	\$ 10,681,190	\$ 10,961,570	\$ 10,765,277	\$ 10,589,252	\$ 10,930,096	\$ 10,231,278	\$ 9,779,505		
Total Costs for the current month	\$ 14,520,622	\$ 16,450,256	\$ 16,622,530	\$ 19,861,489	\$ 20,100,823	\$ 20,290,492	\$ 19,764,765	\$ 12,289,276		
S.C. Retail kWh Sales	411,013,563	533,237,463	461,633,361	523,124,836	658,136,492	621,746,700	511,359,659	578,449,399		
Total System kWh Sales Excluding Off-System Sales	4,653,962,859	4,494,045,504	4,644,699,960	5,677,792,552	6,164,634,934	6,200,477,072	5,427,393,740	5,150,522,556		
S.C. Allocation Factor	8.83%	11.87%	9.94%	9.21%	10.68%	10.03%	9.42%	11.23%		
S.C. Share of Capacity Costs	\$ 1,282,384	\$ 1,951,892	\$ 1,652,102	\$ 1,829,942	\$ 2,145,964	\$ 2,034,609	\$ 1,862,203	\$ 1,380,195		
Amount Billed to Retail Customers (Over)/Under-Recovery	\$ 1,380,924	\$ 1,385,519	\$ 1,296,761	\$ 1,608,309	\$ 1,955,296	\$ 2,182,762	\$ 2,210,515	\$ 1,849,847		
Company Accounting Adjustments	\$ (98,540)	\$ 566,373	\$ 355,341	\$ 221,633	\$ 190,668	\$ (148,153)	\$ (348,312)	\$ (469,652)		
Cumulative (Over)/Under-Recovery - Prior Month	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Cumulative (Over)/Under-Recovery	\$ 1,622,067	\$ 1,523,527	\$ 2,089,900	\$ 2,445,241	\$ 2,666,874	\$ 2,857,542	\$ 2,709,389	\$ 2,361,077	\$ 1,891,425	
	\$ 1,523,527	\$ 2,089,900	\$ 2,445,241	\$ 2,666,874	\$ 2,857,542	\$ 2,709,389	\$ 2,361,077	\$ 1,891,425		
									Estimated	
									March 2019	June 2019
PURPA Purchased Power Capacity Costs	\$ 3,787,242	\$ 2,047,397	\$ 4,233,736	\$ 5,175,127	\$ 4,340,213	\$ 6,895,799	\$ 7,360,415	\$ 7,026,331		
Natural Gas Capacity Costs	\$ 11,410,673	\$ 11,126,923	\$ 10,513,351	\$ 10,049,308	\$ 11,128,452	\$ 13,289,963	\$ 11,592,740	\$ 12,570,091		
Total Costs for the current month	\$ 15,197,915	\$ 13,174,320	\$ 14,747,087	\$ 15,224,435	\$ 15,468,665	\$ 20,185,762	\$ 18,953,155	\$ 19,596,422		
S.C. Retail kWh Sales	505,054,037	445,338,979	605,279,111	555,508,005	416,088,164	510,686,159	491,046,715	541,036,670		
Total System kWh Sales Excluding Off-System Sales	4,723,872,382	4,828,127,846	5,615,989,658	5,087,626,427	4,552,981,616	4,482,512,031	4,446,396,083	5,204,419,092		
S.C. Allocation Factor	10.69%	9.22%	10.78%	10.92%	9.14%	11.39%	11.04%	10.40%		
S.C. Share of Capacity Costs	\$ 1,624,890	\$ 1,215,178	\$ 1,589,409	\$ 1,662,326	\$ 1,413,652	\$ 2,299,736	\$ 2,093,130	\$ 2,037,189		
Amount Billed to Retail Customers (Over)/Under-Recovery	\$ 1,670,226	\$ 1,826,278	\$ 1,817,378	\$ 2,094,418	\$ 1,668,128	\$ 1,806,390	\$ 1,718,794	\$ 1,994,963		
Company Accounting Adjustments	\$ (45,336)	\$ (611,100)	\$ (227,969)	\$ (432,092)	\$ (254,476)	\$ 493,346	\$ 374,336	\$ 42,226		
Cumulative (Over)/Under-Recovery - Prior Month	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Cumulative (Over)/Under-Recovery	\$ 1,891,425	\$ 1,846,089	\$ 1,234,989	\$ 1,007,020	\$ 574,928	\$ 320,452	\$ 813,798	\$ 1,188,134		
	\$ 1,846,089	\$ 1,234,989	\$ 1,007,020	\$ 574,928	\$ 320,452	\$ 813,798	\$ 1,188,134	\$ 1,230,360		

Office of Regulatory Staff
 Details of the Computation of the (Over)/Under-Recovery of Distributed Energy Resource Program Incremental Costs
 Duke Energy Progress, LLC
 March 2018 - June 2019
 Docket No. 2019-1-E

	Actual													
	March 2018	April 2018	May 2018	June 2018	July 2018	August 2018	September 2018	October 2018						
Purchased Power Agreements	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
NEM* Incentive	\$ 24,186	\$ 22,698	\$ 29,771	\$ 32,050	\$ 48,033	\$ 53,650	\$ 58,504	\$ 55,356	\$ 58,504	\$ 53,650	\$ 58,504	\$ 55,356	\$ 58,504	\$ 55,356
Solar Rebate Program	\$ 50,020	\$ 57,739	\$ 62,207	\$ 67,717	\$ 74,720	\$ 75,168	\$ 75,168	\$ 75,168	\$ 75,168	\$ 75,168	\$ 75,168	\$ 75,168	\$ 75,168	\$ 75,168
Shared Solar Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (5)
Carrying Costs on Deferred Amounts	\$ 48,869	\$ 52,675	\$ 58,593	\$ 63,354	\$ 69,382	\$ 67,150	\$ 72,014	\$ 71,404	\$ 72,014	\$ 67,150	\$ 72,014	\$ 71,404	\$ 72,014	\$ 71,404
NEM Avoided Capacity	\$ 1,307	\$ 237	\$ 2,228	\$ 1,347	\$ 1,940	\$ 2,351	\$ 2,529	\$ 1,797	\$ 2,529	\$ 2,351	\$ 2,529	\$ 1,797	\$ 2,529	\$ 1,797
NEM Meter Costs	\$ 3,320	\$ 3,597	\$ 5,323	\$ 6,296	\$ 9,389	\$ 9,691	\$ 7,206	\$ 7,376	\$ 9,389	\$ 9,691	\$ 7,206	\$ 7,376	\$ 9,389	\$ 7,376
General and Administrative Expenses	\$ 35,802	\$ 26,444	\$ 24,650	\$ 25,156	\$ 51,552	\$ 27,112	\$ 24,208	\$ 27,419	\$ 51,552	\$ 27,112	\$ 24,208	\$ 27,419	\$ 51,552	\$ 27,419
Interest on under-collection due to cap	\$ -	\$ -	\$ 27	\$ 25	\$ 51	\$ 38	\$ 50	\$ 43	\$ 51	\$ 38	\$ 50	\$ 43	\$ 51	\$ 43
Total Incremental Costs	\$ 163,504	\$ 163,390	\$ 182,799	\$ 195,945	\$ 255,067	\$ 235,160	\$ 239,679	\$ 238,558	\$ 255,067	\$ 235,160	\$ 239,679	\$ 238,558	\$ 255,067	\$ 238,558
Revenue Collected	\$ 256,291	\$ 256,062	\$ 256,432	\$ 255,244	\$ 213,306	\$ 174,342	\$ 157,397	\$ 172,809	\$ 213,306	\$ 174,342	\$ 157,397	\$ 172,809	\$ 213,306	\$ 172,809
(Over)/Under Recovery	\$ (92,787)	\$ (92,672)	\$ (73,633)	\$ (59,299)	\$ 41,761	\$ 60,818	\$ 82,282	\$ 65,749	\$ 41,761	\$ 60,818	\$ 82,282	\$ 65,749	\$ 41,761	\$ 65,749
Cumulative (Over)/Under Recovery- Prior Month	\$ (448,552)	\$ (541,339)	\$ (634,011)	\$ (707,644)	\$ (702,927)	\$ (661,166)	\$ (600,348)	\$ (518,066)	\$ (702,927)	\$ (661,166)	\$ (600,348)	\$ (518,066)	\$ (702,927)	\$ (518,066)
Company Accounting Adjustments	\$ -	\$ -	\$ -	\$ 64,016	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cumulative (Over)/Under Recovery	\$ (541,339)	\$ (634,011)	\$ (707,644)	\$ (702,927)	\$ (661,166)	\$ (600,348)	\$ (518,066)	\$ (452,317)	\$ (661,166)	\$ (600,348)	\$ (518,066)	\$ (452,317)	\$ (661,166)	\$ (518,066)

	Actual					Estimated								
	November 2018	December 2018	January 2019	February 2019	March 2019	April 2019	May 2019	June 2019						
Purchased Power Agreements	\$ -	\$ -	\$ -	\$ 4,087	\$ 2,642	\$ 5,028	\$ 5,028	\$ 5,028	\$ 5,028	\$ 5,028	\$ 5,028	\$ 5,028	\$ 5,028	\$ 5,028
NEM* Incentive	\$ 62,396	\$ 66,475	\$ 72,360	\$ 76,526	\$ 81,081	\$ 86,646	\$ 90,495	\$ 96,857	\$ 81,081	\$ 86,646	\$ 90,495	\$ 96,857	\$ 81,081	\$ 96,857
Solar Rebate Program	\$ 77,317	\$ 77,317	\$ 77,317	\$ 77,317	\$ 77,317	\$ (177,456)	\$ 43,523	\$ 44,252	\$ 77,317	\$ (177,456)	\$ 43,523	\$ 44,252	\$ 77,317	\$ 44,252
Shared Solar Program	\$ (147)	\$ 219	\$ (117)	\$ (250)	\$ 249	\$ 10,212	\$ 10,212	\$ 10,212	\$ 249	\$ 10,212	\$ 10,212	\$ 10,212	\$ 249	\$ 10,212
Carrying Costs on Deferred Amounts	\$ 72,070	\$ 72,724	\$ 72,288	\$ 71,853	\$ 71,417	\$ 72,521	\$ 73,609	\$ 40,674	\$ 71,417	\$ 72,521	\$ 73,609	\$ 40,674	\$ 71,417	\$ 40,674
NEM Avoided Capacity	\$ 2,501	\$ 2,658	\$ 2,710	\$ 2,419	\$ 2,909	\$ 3,123	\$ 3,212	\$ 3,377	\$ 2,909	\$ 3,123	\$ 3,212	\$ 3,377	\$ 2,909	\$ 3,377
NEM Meter Costs	\$ 7,522	\$ 7,736	\$ 7,824	\$ 8,510	\$ 8,455	\$ 9,024	\$ 9,228	\$ 9,442	\$ 8,455	\$ 9,024	\$ 9,228	\$ 9,442	\$ 8,455	\$ 9,442
General and Administrative Expenses	\$ 32,345	\$ 42,639	\$ 44,132	\$ 16,918	\$ 22,856	\$ 29,841	\$ 29,841	\$ 29,841	\$ 22,856	\$ 29,841	\$ 29,841	\$ 29,841	\$ 22,856	\$ 29,841
Interest on under-collection due to cap	\$ 55	\$ 66	\$ 37	\$ 33	\$ 37	\$ 42	\$ 42	\$ 42	\$ 37	\$ 42	\$ 42	\$ 42	\$ 37	\$ 42
Total Incremental Costs	\$ 254,059	\$ 269,834	\$ 276,551	\$ 257,413	\$ 266,963	\$ 38,981	\$ 265,190	\$ 239,725	\$ 266,963	\$ 38,981	\$ 265,190	\$ 239,725	\$ 266,963	\$ 239,725
Revenue Collected	\$ 164,964	\$ 157,891	\$ 167,477	\$ 165,563	\$ 165,840	\$ 165,454	\$ 165,541	\$ 165,629	\$ 165,840	\$ 165,454	\$ 165,541	\$ 165,629	\$ 165,840	\$ 165,629
(Over)/Under Recovery	\$ 89,095	\$ 111,943	\$ 109,074	\$ 91,850	\$ 101,123	\$ (126,473)	\$ 99,649	\$ 74,096	\$ 101,123	\$ (126,473)	\$ 99,649	\$ 74,096	\$ 101,123	\$ 74,096
Cumulative (Over)/Under Recovery- Prior Month	\$ (452,317)	\$ (363,222)	\$ (251,279)	\$ (85,610)	\$ 6,240	\$ 107,363	\$ (19,110)	\$ 80,539	\$ 6,240	\$ 107,363	\$ (19,110)	\$ 80,539	\$ 6,240	\$ 80,539
Company Accounting Adjustments	\$ -	\$ -	\$ (D)	\$ 56,595	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Cumulative (Over)/Under Recovery	\$ (363,222)	\$ (251,279)	\$ (85,610)	\$ 6,240	\$ 107,363	\$ (19,110)	\$ 80,539	\$ 154,635	\$ 107,363	\$ (19,110)	\$ 80,539	\$ 154,635	\$ 107,363	\$ 154,635

* Net Energy Metering

**Explanations of Adjustments (C) and (D) are included in the testimony of Anthony D. Briseno.

Office of Regulatory Staff
 Details of the Computation of the (Over)/Under-Recovery of Distributed Energy Resource Program Avoided Costs
 Duke Energy Progress, LLC
 March 2018 - June 2019
 Docket No. 2019-1-E

	Actual									
	March 2018	April 2018	May 2018	June 2018	July 2018	August 2018	September 2018	October 2018		
Purchase Power Agreements	\$ 48,913	\$ 62,995	\$ 67,141	\$ 25,125	\$ 56,298	\$ 158,899	\$ 96,632	\$ (15,529)		
Shared Solar Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 49		
Total Avoided Costs	\$ 48,913	\$ 62,995	\$ 67,141	\$ 25,125	\$ 56,298	\$ 158,899	\$ 96,632	\$ (15,480)		
S.C. Retail kWh Sales	411,013,563	533,237,463	461,633,361	523,124,836	658,136,492	621,746,700	511,359,659	578,449,399		
Total System kWh Sales Excluding Off-System Sales	4,653,962,859	4,494,045,504	4,644,699,960	5,677,792,552	6,164,634,934	6,200,477,072	5,427,393,740	5,150,522,556		
S.C. Allocation Factor	8.83%	11.87%	9.94%	9.21%	10.68%	10.03%	9.42%	11.23%		
S.C. Share of Avoided Costs	\$ 4,320	\$ 7,475	\$ 6,673	\$ 2,315	\$ 6,010	\$ 15,933	\$ 9,105	\$ (1,739)		
Amount Billed to Retail Customers	\$ -	\$ -	\$ -	\$ -	\$ 2,937	\$ 6,221	\$ 6,024	\$ 5,190		
Current Month (Over)/Under-Recovery Amount	\$ 4,320	\$ 7,475	\$ 6,673	\$ 2,315	\$ 3,073	\$ 9,712	\$ 3,081	\$ (6,929)		
Company Accounting Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
ORS Accounting Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Cumulative (Over)/Under-Recovery - Prior Month	\$ 2,714	\$ 7,034	\$ 14,509	\$ 21,182	\$ 23,497	\$ 26,570	\$ 36,282	\$ 39,363		
Cumulative (Over)/Under-Recovery	\$ 7,034	\$ 14,509	\$ 21,182	\$ 23,497	\$ 26,570	\$ 36,282	\$ 39,363	\$ 32,434		
									Estimated	
	November 2018	December 2018	January 2019	February 2019	March 2019	April 2019	May 2019	June 2019		
Purchase Power Agreements	\$ 60,191	\$ 22,291	\$ 22,682	\$ 38,071	\$ 29,819	\$ 39,730	\$ 42,730	\$ 39,730		
Shared Solar Program	\$ 167	\$ 186	\$ 214	\$ 648	\$ 537	\$ 9,933	\$ 9,933	\$ 9,933		
Total Avoided Costs	\$ 60,358	\$ 22,477	\$ 22,896	\$ 38,719	\$ 30,356	\$ 49,663	\$ 52,663	\$ 49,663		
S.C. Retail kWh Sales	505,054,037	445,338,979	605,279,111	555,508,005	416,088,164	510,686,159	491,046,715	541,036,670		
Total System kWh Sales Excluding Off-System Sales	4,723,872,382	4,828,127,846	5,615,989,658	5,087,626,427	4,552,981,616	4,482,512,031	4,446,396,083	5,204,419,092		
S.C. Allocation Factor	10.69%	9.22%	10.78%	10.92%	9.14%	11.39%	11.04%	10.40%		
S.C. Share of Avoided Costs	\$ 6,453	\$ 2,073	\$ 2,468	\$ 4,228	\$ 2,774	\$ 5,658	\$ 5,816	\$ 5,163		
Amount Billed to Retail Customers	\$ 4,455	\$ 5,625	\$ 6,202	\$ 6,406	\$ 4,681	\$ 5,083	\$ 4,400	\$ 5,411		
Current Month (Over)/Under-Recovery Amount	\$ 1,998	\$ (3,552)	\$ (3,734)	\$ (2,178)	\$ (1,907)	\$ 575	\$ 1,416	\$ (248)		
Company Accounting Adjustments	\$ -	\$ -	\$ (E) (5,682)	\$ -	\$ -	\$ -	\$ -	\$ -		
ORS Accounting Adjustments	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Cumulative (Over)/Under-Recovery - Prior Month	\$ 32,434	\$ 34,432	\$ 30,880	\$ 21,464	\$ 19,286	\$ 17,379	\$ 17,954	\$ 19,370		
Cumulative (Over)/Under-Recovery	\$ 34,432	\$ 30,880	\$ 21,464	\$ 19,286	\$ 17,379	\$ 17,954	\$ 19,370	\$ 19,122		

*Explanation of Adjustment (E) is included in the testimony of Anthony D. Briseno.